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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/672,450	09/26/2003	Hee Il Wang	2080-3-183	8445
7590	08/02/2005		EXAMINER	
JONATHAN Y. KANG, ESQ. LEE, HONG, DEGERMAN, KANG & SCHMADEKA 14th Floor 801 S. Figueroa St. Los Angeles, CA 90017			MARC, MCDIEUNEL	
			ART UNIT	PAPER NUMBER
			3661	
				DATE MAILED: 08/02/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/672,450	WANG, HEE IL	
	Examiner	Art Unit	
	McDieunel Marc	3661	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).

Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 31 January 2005.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-21 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) 11-21 is/are allowed.
- 6) Claim(s) 1-3 is/are rejected.
- 7) Claim(s) 4-10 is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 26 September 2003 is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____
3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
	6) <input type="checkbox"/> Other: _____

DETAILED ACTION

1. Claims 1-21 are presented for examination.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-3 are rejected under 35 U.S.C. 102(b) as being anticipated by Han (U.S. Pat. No. **5,646,494**).

As per claim 1, Han teaches a robot cleaner having method for compensating a rotational position error (see col. 12, lines 22-26) of a robot cleaner (see fig. 4) comprising: detecting an offset value of a sensor for detecting a rotational speed of a robot cleaner (see col. 10, lines 40-44); compensating the detected offset value (see col. 7, lines 7-12); and correcting a rotational position of the robot cleaner on the basis of the compensated offset value (see col. 2, lines 42-44).

As per claims 2-3, Han teaches a robot cleaner, wherein the sensor is a gyro sensor (see col. 7, lines 7-19); in the step of detecting an offset value, an offset value of

the sensor is detected whenever the robot cleaner temporarily stops (see col. 10, lines 60-64, wherein the stop being considered as a temporary stop).

Allowable Subject Matter

4. Claims 11-21 are allowed.
5. The following is a statement of reasons for the indication of allowable subject matter:

The prior art of record fail to teach of fairly suggest a method that further includes the step of obtaining an average value of the detected offset values and a standard deviation; averaging the noise-removed offset value on the basis of the average value and the standard deviation; determining the averaged offset value as a new gyro offset value in combination with other element of the claimed invention.

6. Claims 4-10 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
7. The following is a statement of reasons for the indication of allowable subject matter:

Art Unit: 3661

The prior art of record fail to teach of fairly suggest a claim 4, averaging the noise-removed offset value on the basis of the average value and the standard deviation; and determining the averaged offset value as a new offset value.; with respect to claim 8, calculating the amount of rotation of the robot cleaner by accumulatively adding the calculated angular velocities; and subtracting the calculated amount of rotation from the previous amount of rotation, and compensating the subtracted amount of rotation; with respect to claim 9, averaging the average value and the standard deviation, and determining the averaged offset value as a new offset value; with respect to claim 10, calculating the amount of rotation of the robot cleaner by accumulatively adding the calculated angular velocities; and subtracting the calculated amount of rotation from the previous amount of rotation, and compensating the subtracted amount of rotation, in combination with other element of the claimed invention.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to McDieunel Marc whose telephone number is (571) 272-6964. The examiner can normally be reached on 6:30-5:00 Mon-Thu.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Black can be reached on (571) 272-6956. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


McDieunel Marc

Friday, July 22, 2005

MM/